

AMENDMENTS**Amendments to the Claims**

Please amend the claims according to the following listing of the claims.

Listing of the claims

1. (currently amended) A foam composed of a high-temperature-resistant thermoplastic selected from the group consisting of polyether sulfones, polysulfones, ~~polyether ketones, polyether ether ketones, polyether ketone ketones,~~ polyethersulfonamides, and mixtures of these, and having an open-cell structure, wherein the open-cell factor for the foam is at least 75%, and wherein the foam has a cell size of from 50 to 2000 μm .
- 2 - 4. (canceled)
5. (previously amended) A foam as claimed in claim 1, wherein the plastic has a glass transition temperature above 170°C.
- 6-13. (cancelled)
14. (previously presented) A molding, in particular a sheet, comprising an open-cell foam as claimed in claim 1.
- 15-23. (cancelled)
24. (previously presented) A foam as claimed in claim 1,

wherein the open-cell factor for the foam is at least 85%.

25. (previously presented) A foam as claimed in claim 1, wherein the open-cell factor for the foam is at least 90%.

26. (previously presented) A foam as claimed in claim 1, which has a cell size of from 100 to 1000 μm .

27. (previously presented) A foam as claimed in claim 1, which has a cell size of from 100 to 800 μm .

28. (previously presented) A foam as claimed in claim 1, which has a density of from 20 to 200 g/l.

29. (previously presented) A foam as claimed in claim 1, which has a density of from 20 to 150 g/l.

30. (previously presented) A foam as claimed in claim 1, which has a density of from 30 to 100 g/l.

31. (currently amended) A foam as claimed in claim 1, which has a density of from 20 to 200 g/l.

32. (previously presented) A foam as claimed in claim 26, which has a density of from 20 to 150 g/l.

33. (previously presented) A foam as claimed in claim 27, which has a density of from 30 to 100 g/l.

34. (previously presented) A foam as claimed in claim 1,

wherein the plastic has a glass transition temperature above 180°.

35. (previously presented) A foam as claimed in claim 1, wherein the plastic has a glass transition temperature above 200°.
36. (previously presented) A foam as claimed in claim 1, wherein the plastic is thermoplastically extrudable at temperatures above 280°.
37. (previously presented) A foam as claimed in claim 1, wherein the plastic is thermoplastically extrudable at temperatures above 300°.
38. (previously presented) A foam as claimed in claim 1, wherein the plastic is thermoplastically extrudable at temperatures above 320°.
39. (previously presented) A foam as claimed in claim 5, wherein the plastic is thermoplastically extrudable at temperatures above 280°.
40. (previously presented) A foam as claimed in claim 34, wherein the plastic is thermoplastically extrudable at temperatures above 300°.
41. (previously presented) A foam as claimed in claim 35, wherein the plastic is thermoplastically extrudable at temperatures above 320°.